



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 59209610 A  
(43) Date of publication of application: 28.11.1984

(51) Int. Cl. B01D 13/00

B01D 53/22, C08G 18/61

(21) Application number: 58081770

(22) Date of filing: 12.05.1983

(71) Applicant: TEIJIN LTD

(72) Inventor: **YAMADA KENKO**

## (54) PERMSELECTIVE MEMBRANE

(57) Abstract:

**PURPOSE:** To provide a permselective membrane for selectively separate and concentrating oxygen in the air, constituted of a polymer consisting a polyamine component prepared by containing two kinds of specific polyamine compounds in a predetermined ratio and an isocyanate component.

CONSTITUTION: A polyamine compound I represented by formula I (wherein  $R_1$ ,  $R_2$ ,  $R_{11}$  and  $R_{12}$  are a hydrogen atom or an 1W10C hydrocarbon group,  $R_3$  and  $R_4$  are a hydrogen atom or a 15C or less hydrocarbon group which may have an amino group and  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R'_7$ ,  $R_8$ ,  $R'_8$ ,  $R_9$ ,  $R_{13}$ ,  $R_{14}$ ,  $R_{15}$ ,  $R'_{15}$ ,  $R_{16}$  and  $R'_{16}$  are a 20C or less hydrocarbon group of a fluorinated hydrocarbon group) and a polyamine compound II represented by formula II are prepared. A polyamine component prepared by containing both compounds I, II in such a mol ratio that polyamine compound I/(polyamine compound I + polyamine compound II) is 1W0.1 is reacted with polysiocyanate having a plural-

ity of isocyanate groups to form a siloxane-containing polyurea polymer. Oxygen in the air is separated and concentrated by the membrane comprising this polymer.

COPYRIGHT: (C)1984,JPO&Japio

